



ELSEVIER

Comput. Methods Appl. Mech. Engrg. 141 (1997) 399-400

---

---

**Computer methods  
in applied  
mechanics and  
engineering**

---

---

## Author Index of Volume 141

- Axelsson, O. see Blaheta, R. 281-295
- Baubec, M. see Visarion, V. 311-333
- Besson, J. see Foerch, R. 355-372
- Bingulac, S. see El-Dessouky, H. 95-115
- Blaheta, R. and Axelsson, O. Convergence of inexact Newton-like iterations in incremental finite element analysis of elasto-plastic problems 281-295
- Borja, R.I. see Wren, J.R. 221-246
- Cailletaud, G. see Foerch, R. 355-372
- Capsoni, A. and Corradi, L. A mixed finite element model for plane strain elastic-plastic analysis. Part I. Formulation and assessment of the overall behaviour 67- 79
- Capsoni, A. and Corradi, L. A mixed finite element model for plane strain elastic-plastic analysis. Part II. Application to the 4-node bilinear element 81- 93
- Cescotto, S. see Li, K.P. 157-204
- Cheng Wang, X. see Kang Sui, Y. 117-123
- Chróscielewski, J., Makowski, J. and Stumpf, H. Finite element analysis of smooth, folded and multi-shell structures 1- 46
- Corradi, L. see Capsoni, A. 67- 79
- Corradi, L. see Capsoni, A. 81- 93
- Denda, M. and Dong, Y.F. Complex variable approach to the BEM for multiple crack problems 247-264
- Dong, Y.F. see Denda, M. 247-264
- El-Dessouky, H. and Bingulac, S. A fixed point iterative algorithm for solving equations modeling the multi-stage flash desalination process 95-115
- Foerch, R., Besson, J., Cailletaud, G. and Pilvin, P. Polymorphic constitutive equations in finite element codes 355-372
- Frangos, C. see Yavin, Y. 297-309
- Han, J.-B. and Liew, K.M. An eight-node curvilinear differential quadrature formulation for Reissner/Mindlin plates 265-280
- Kang Sui, Y. and Cheng Wang, X. Second-order method of generalized geometric programming for spatial frame optimization 117-123
- Křístek, A. see Plešek, J. 389-397

- Li, K.P. and Cescotto, S. An 8-node brick element with mixed formulation for large deformation analyses 157-204
- Liew, K.M. see Han, J.-B. 265-280
- Makowski, J. see Chróścielewski, J. 1- 46
- Misra, D. and Sarkar, A. Finite element analysis of conjugate natural convection in a square enclosure with a conducting vertical wall 205-219
- Noor, A.K. see Watson, B.C. 373-388
- Noor, A.K. see Xu, K. 125-139
- Pilvin, P. see Foerch, R. 355-372
- Plešek, J. and Křístek, A. Assessments of methods for locating the point of initial yield 389-397
- Rassineux, A. 3D mesh adaptation. Optimization of tetrahedral meshes by advancing front technique 335-354
- Sarkar, A. see Misra, D. 205-219
- Spiliopoulos, K.V. On the automation of the force method in the optimal plastic design of frames 141-156
- Stumpf, H. see Chróścielewski, J. 1- 46
- Tang, Y.Y. see Xu, K. 125-139
- Visarion, V. and Baubec, M. Some strange properties of minimal surfaces in connection with Plateau's problem 311-333
- Watson, B.C. and Noor, A.K. Large-scale contact/impact simulation and sensitivity analysis on distributed-memory computers 373-388
- Wren, J.R. and Borja, R.I. Micromechanics of granular media. Part II: Overall tangential moduli and localization model for periodic assemblies of circular disks 221-246
- Xu, K., Noor, A.K. and Tang, Y.Y. Three-dimensional solutions for free vibrations of initially-stressed thermoelectroelastic multilayered plates 125-139
- Yavin, Y. and Frangos, C. On a horizontal version of the inverse pendulum problem 297-309
- Yurun, F. A comparative study of the discontinuous Galerkin and continuous SUPG finite element methods for computation of viscoelastic flows 47- 65



ELSEVIER

Comput. Methods Appl. Mech. Engrg. 141 (1997) 401-404

**Computer methods  
in applied  
mechanics and  
engineering**

## Subject Index of Volume 141

### *Boundary element methods*

- Complex variable approach to the BEM for multiple crack problems, M. Denda and Y.F. Dong 247-264

### *Calculus of variations*

- Some strange properties of minimal surfaces in connection with Plateau's problem, V. Visarion and M. Baubec 311-333

### *Control theory*

- On a horizontal version of the inverse pendulum problem, Y. Yavin and C. Frangos 297-309

### *Coupled problems*

- Three-dimensional solutions for free vibrations of initially-stressed thermoelectroelastic multilayered plates, K. Xu, A.K. Noor and Y.Y. Tang 125-139
- Finite element analysis of conjugate natural convection in a square enclosure with a conducting vertical wall, D. Misra and A. Sarkar 205-219

### *Design of programs*

- Some strange properties of minimal surfaces in connection with Plateau's problem, V. Visarion and M. Baubec 311-333
- Polymorphic constitutive equations in finite element codes, R. Foerch, J. Besson, G. Cailletaud and P. Pilvin 355-372
- Assessments of methods for locating the point of initial yield, J. Plešek and A. Křístek 389-397

### *Dynamics*

- On a horizontal version of the inverse pendulum problem, Y. Yavin and C. Frangos 297-309

### *Elasticity*

- Three-dimensional solutions for free vibrations of initially-stressed thermoelectroelastic multilayered plates, K. Xu, A.K. Noor and Y.Y. Tang 125-139
- Complex variable approach to the BEM for multiple crack problems, M. Denda and Y.F. Dong 247-264
- An eight-node curvilinear differential quadrature formulation for Reissner/Mindlin plates, J.-B. Han and K.M. Liew 265-280

### *Finite element and matrix methods*

- Finite element analysis of smooth, folded and multi-shell structures, J. Chróścielewski, J. Makowski and H. Stumpf 1- 46
- A comparative study of the discontinuous Galerkin and continuous SUPG finite element methods for computation of viscoelastic flows, F. Yurun 47- 65



- A mixed finite element model for plane strain elastic-plastic analysis. Part I. Formulation and assessment of the overall behaviour, A. Capsoni and L. Corradi 67- 79
- A mixed finite element model for plane strain elastic-plastic analysis. Part II. Application to the 4-node bilinear element, A. Capsoni and L. Corradi 81- 93
- Three-dimensional solutions for free vibrations of initially-stressed thermoelectroelastic multilayered plates, K. Xu, A.K. Noor and Y.Y. Tang 125-139
- An 8-node brick element with mixed formulation for large deformation analyses, K.P. Li and S. Cescotto 157-204
- Finite element analysis of conjugate natural convection in a square enclosure with a conducting vertical wall, D. Misra and A. Sarkar 205-219
- Micromechanics of granular media, J.R. Wren and R.I. Borja 221-246
- Polymorphic constitutive equations in finite element codes, R. Foerch, J. Besson, G. Cailletaud and P. Pilvin 355-372
- Large-scale contact/impact simulation and sensitivity analysis on distributed-memory computers, B.C. Watson and A.K. Noor 373-388
- Assessments of methods for locating the point of initial yield, J. Plešek and A. Křístek 389-397
- Heat and diffusion*
- Finite element analysis of conjugate natural convection in a square enclosure with a conducting vertical wall, D. Misra and A. Sarkar 205-219
- Incompressible and near incompressible media*
- A mixed finite element model for plane strain elastic-plastic analysis. Part I. Formulation and assessment of the overall behaviour, A. Capsoni and L. Corradi 67- 79
- A mixed finite element model for plane strain elastic-plastic analysis. Part II. Application to the 4-node bilinear element, A. Capsoni and L. Corradi 81- 93
- Limit solutions*
- On the automation of the force method in the optimal plastic design of frames, K.V. Spiliopoulos 141-156
- Matrix calculus*
- Finite element analysis of smooth, folded and multi-shell structures, J. Chróścielewski, J. Makowski and H. Stumpf 1- 46
- Modern computer architecture*
- Large-scale contact/impact simulation and sensitivity analysis on distributed-memory computers, B.C. Watson and A.K. Noor 373-388
- Nonlinear dynamics of systems*
- On a horizontal version of the inverse pendulum problem, Y. Yavin and C. Frangos 297-309
- Large-scale contact/impact simulation and sensitivity analysis on distributed-memory computers, B.C. Watson and A.K. Noor 373-388
- Nonlinear mechanics*
- Finite element analysis of smooth, folded and multi-shell structures, J. Chróścielewski, J. Makowski and H. Stumpf 1- 46
- An 8-node brick element with mixed formulation for large deformation analyses, K.P. Li and S. Cescotto 157-204
- Micromechanics of granular media, J.R. Wren and R.I. Borja 221-246
- Convergence of inexact Newton-like iterations in incremental finite element analysis of elasto-plastic problems, R. Blaheta and O. Axelsson 281-295

- On a horizontal version of the inverse pendulum problem, Y. Yavin and C. Frangos 297-309
- Large-scale contact/impact simulation and sensitivity analysis on distributed-memory computers, B.C. Watson and A.K. Noor 373-388
- Assessments of methods for locating the point of initial yield, J. Plešek and A. Křístek 389-397
- Numerical solution procedures*
- Finite element analysis of smooth, folded and multi-shell structures, J. Chróścielewski, J. Makowski and H. Stumpf 1- 46
- A fixed point iterative algorithm for solving equations modeling the multi-stage flash desalination process, H. El-Dessouky and S. Bingulac 95-115
- On the automation of the force method in the optimal plastic design of frames, K.V. Spiliopoulos 141-156
- Micromechanics of granular media, J.R. Wren and R.I. Borja 221-246
- An eight-node curvilinear differential quadrature formulation for Reissner/Mindlin plates, J.-B. Han and K.M. Liew 265-280
- Convergence of inexact Newton-like iterations in incremental finite element analysis of elasto-plastic problems, R. Blaheta and O. Axelsson 281-295
- Assessments of methods for locating the point of initial yield, J. Plešek and A. Křístek 389-397
- Optimization*
- On the automation of the force method in the optimal plastic design of frames, K.V. Spiliopoulos 141-156
- Some strange properties of minimal surfaces in connection with Plateau's problem, V. Visarion and M. Baubec 311-333
- 3D mesh adaptation. Optimization of tetrahedral meshes by advancing front technique, A. Rassineux 335-372
- Optimization and design of structures*
- Second-order method of generalized geometric programming for spatial frame optimization, Y. Kang Sui and X. Cheng Wang 117-123
- On the automation of the force method in the optimal plastic design of frames, K.V. Spiliopoulos 141-156
- Plasticity*
- A mixed finite element model for plane strain elastic-plastic analysis. Part I. Formulation and assessment of the overall behaviour, A. Capsoni and L. Corradi 67- 79
- A mixed finite element model for plane strain elastic-plastic analysis. Part II. Application to the 4-node bilinear element, A. Capsoni and L. Corradi 81- 93
- On the automation of the force method in the optimal plastic design of frames, K.V. Spiliopoulos 141-156
- Micromechanics of granular media, J.R. Wren and R.I. Borja 221-246
- Convergence of inexact Newton-like iterations in incremental finite element analysis of elasto-plastic problems, R. Blaheta and O. Axelsson 281-295
- Polymorphic constitutive equations in finite element codes, R. Foerch, J. Besson, G. Cailletaud and P. Pilvin 355-372
- Assessments of methods for locating the point of initial yield, J. Plešek and A. Křístek 389-397
- Shells and plates*
- Finite element analysis of smooth, folded and multi-shell structures, J. Chróścielewski, J. Makowski and H. Stumpf 1- 46
- Three-dimensional solutions for free vibrations of initially-stressed thermoelectroelastic multilayered plates, K. Xu, A.K. Noor and Y.Y. Tang 125-139

- An eight-node curvilinear differential quadrature formulation for Reissner/Mindlin plates,  
J.-B. Han and K.M. Liew 265-280
- Large-scale contact/impact simulation and sensitivity analysis on distributed-memory  
computers, B.C. Watson and A.K. Noor 373-388
- Solution of differential equations*
- An eight-node curvilinear differential quadrature formulation for Reissner/Mindlin plates,  
J.-B. Han and K.M. Liew 265-280
- Solution of integral equations (singularity method)*
- Complex variable approach to the BEM for multiple crack problems, M. Denda and  
Y.F. Dong 247-264
- Solutions of ordinary and partial differential equations*
- Three-dimensional solutions for free vibrations of initially-stressed thermoelectroelastic  
multilayered plates, K. Xu, A.K. Noor and Y.Y. Tang 125-139
- Structural mechanics*
- Finite element analysis of smooth, folded and multi-shell structures, J. Chróścielewski,  
J. Makowski and H. Stumpf 1- 46
- Three-dimensional solutions for free vibrations of initially-stressed thermoelectroelastic  
multilayered plates, K. Xu, A.K. Noor and Y.Y. Tang 125-139
- An 8-node brick element with mixed formulation for large deformation analyses, K.P. Li  
and S. Cescotto 157-204
- An eight-node curvilinear differential quadrature formulation for Reissner/Mindlin plates,  
J.-B. Han and K.M. Liew 265-280
- Large-scale contact/impact simulation and sensitivity analysis on distributed-memory  
computers, B.C. Watson and A.K. Noor 373-388
- Assessments of methods for locating the point of initial yield, J. Plešek and A. Křístek 389-397
- Systems of linear and nonlinear simultaneous equations*
- A fixed point iterative algorithm for solving equations modeling the multi-stage flash  
desalination process, H. El-Dessouky and S. Bingulac 95-115
- An 8-node brick element with mixed formulation for large deformation analyses, K.P. Li  
and S. Cescotto 157-204
- Large-scale contact/impact simulation and sensitivity analysis on distributed-memory  
computers, B.C. Watson and A.K. Noor 373-388
- Thermal effects and thermodynamics*
- A fixed point iterative algorithm for solving equations modeling the multi-stage flash  
desalination process, H. El-Dessouky and S. Bingulac 95-115
- Viscoelastic and viscoplastic media*
- A comparative study of the discontinuous Galerkin and continuous SUPG finite element  
methods for computation of viscoelastic flows, F. Yurun 47- 65
- Polymorphic constitutive equations in finite element codes, R. Foerch, J. Besson,  
G. Cailletaud and P. Pilvin 355-372

